Minnesota State Capitol Preservation Commission Meeting

March 27, 2015





Architectural Integrity. Building Functionality. Life Safety.

Meeting Agenda

- Update to Capitol Preservation Commission
 - Water intrusion and settlement findings.
 - Review out of scope elements and estimated costs.
 - Recommendations from the Arts Subcommittee.
- Adjourn



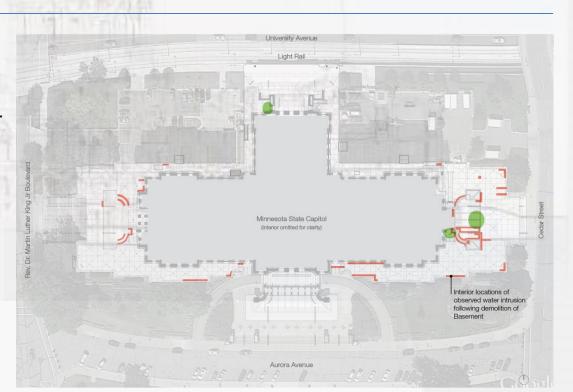
Water Intrusion and Settlement – \$17.261 million

- Extensive water intrusion became evident as demolition work progressed in basement during "wet" spring of 2014.
- Investigation was initiated, including removal of stair treads, stone elements, and sections of the plaza which determined the extent of the deterioration and repairs needed.

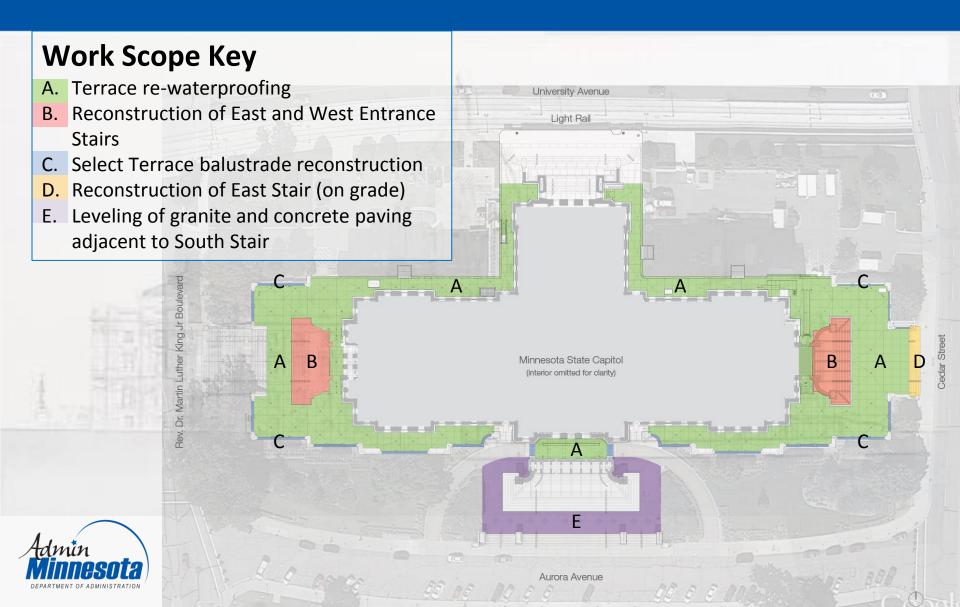
Summary of Project Origination

- Three (3) primary leak areas identified.
- Five (5) areas of granite settlement.
- One (1) area of light pole repairs needed.

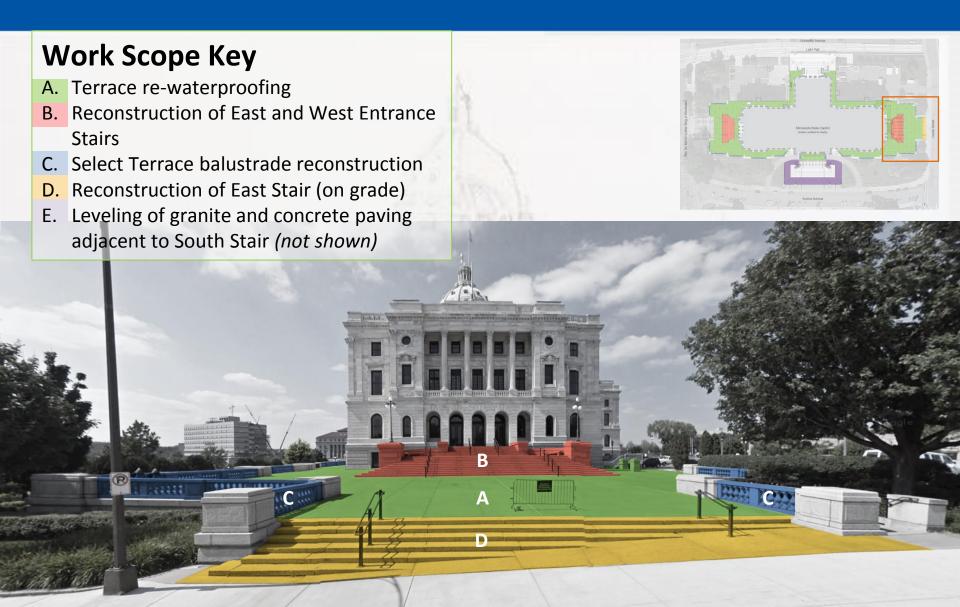
As demolition in the basement was completed, there was evidence of widespread leaking. A more extensive investigation was initiated, which revealed significant deterioration on the stairs, plaza and terrace.



Scope of Recommended Repairs



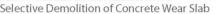
Scope of Recommended Repairs



Terrace Re-Waterproofing

- Replacement Terrace Waterproofing System (existing is primarily bentonite and butyl system)
 - Remove existing concrete wear slab, rigid insulation, drainage composite, and waterproofing.
 - Existing plaza drain locations to remain (repair/replacement drain bodies as required).
 - Install new hot fluid-applied waterproofing system, drainage composite, rigid insulation, and concrete wear slab.







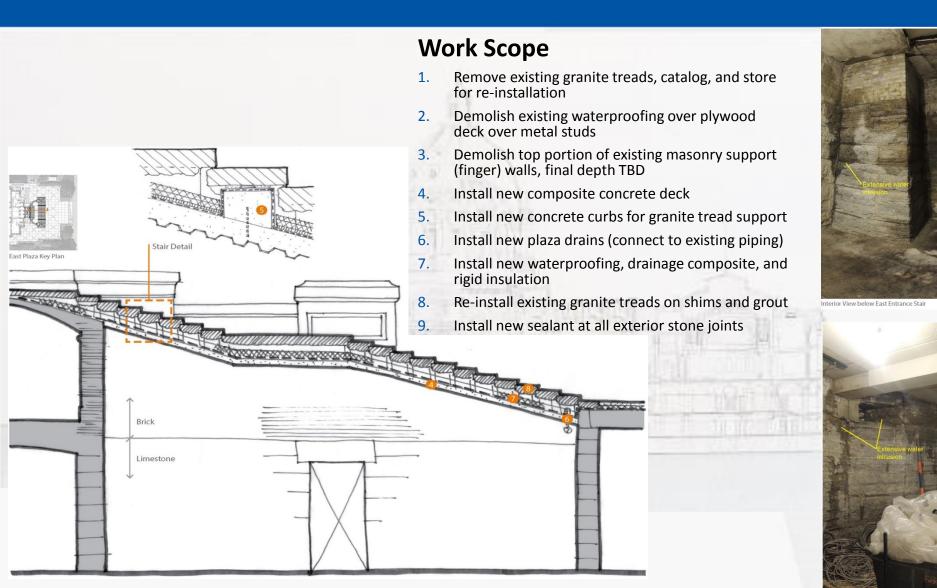
Selective Demolition of Concrete Wear Slab



Interior View of Structural Slab at Basement East Wall



East and West Entrance Stair Repair



Repairs at Curved Walls and Pilasters



Interior View below East Entrance Stone Curved Wall

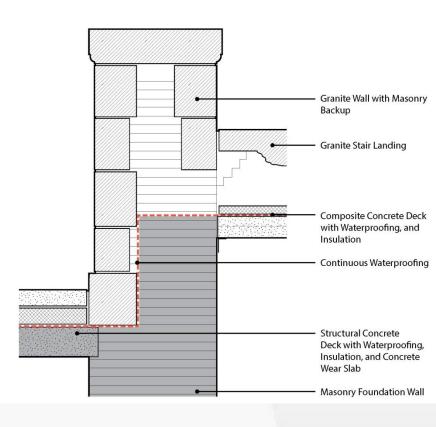


Sealant Detail at East Entrance Stone Curved Wall



East Plaza Key Plan







Light Poles, Sealant, Settlement Repairs



North Stair Light Pole



Granite Paving Settlement at East Stair

Light Poles

- Remove light poles and 1. bases (8 total).
- Clean and prepare light pole assemblies in shop for new high performance paint. Provide new high performance paint in shop.
- Re-lamp fixtures with new 3. LED lighting.
- Repair corroded or missing bolts and nuts for reinstallation.
- Seal conduit penetration through stone cap.
- Reinstall light pole assemblies, set light pole bases in grout bed, with perimeter sealant at base.

Granite Paving Settlement

- Allow vehicular parking to occur at areas adjacent to the South Stair.
- Remove existing paving, salvage granite for reinstallation.
- Engineer soils to accommodate vehicular loads.
- Reinstall granite paving, install new concrete paving.





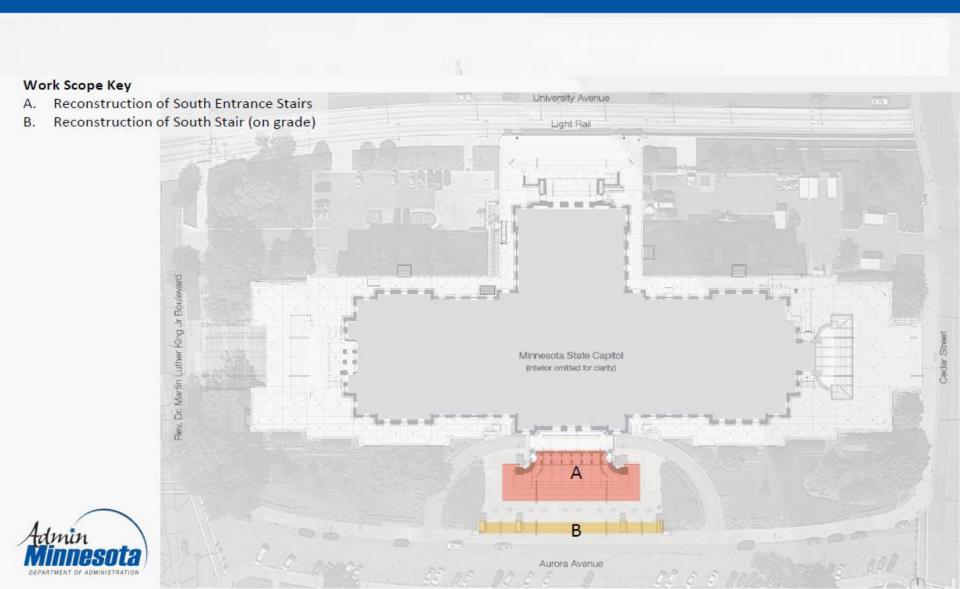
Exterior View of East Entrance Stair

Sealant

Reseal all

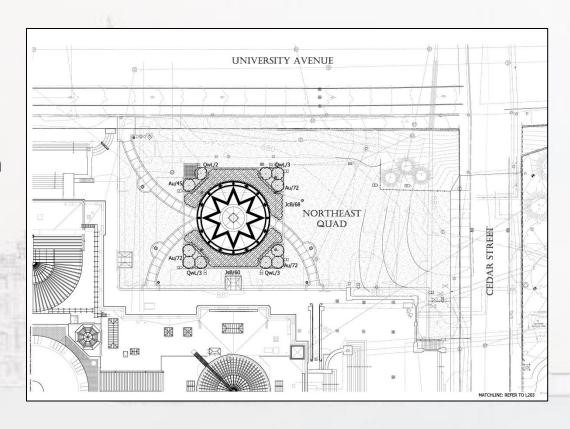


South Step Repairs - \$2.793 million



Lot O - Enhanced Landscaping - \$279,117

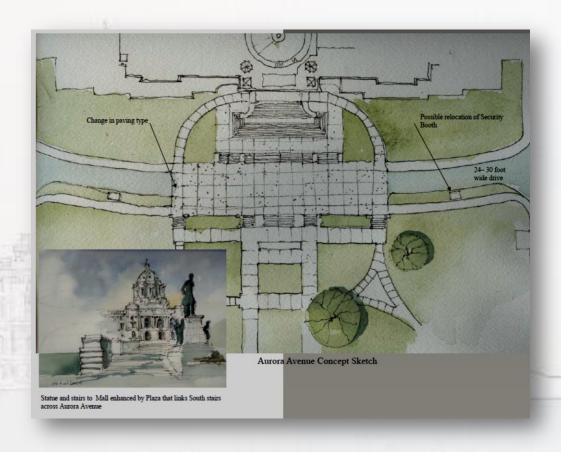
- Returned to Green Space
- Plaza Paving Material
- Walks to link North Entry to East Entry
- Landscape buffer between LRT and Capitol





Aurora Avenue Modifications - \$2.413 million

- Reduce parking
- Enhanced landscaping
- Enhanced gathering function
- Improved security
- Reduced width
- Create plaza





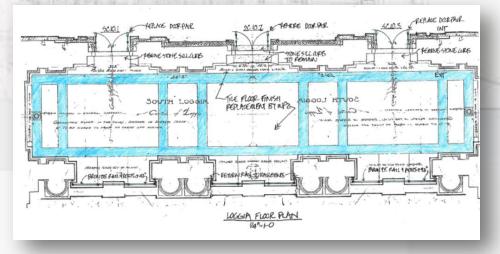
Reopening South Loggia - \$400,003

The South Loggia surface is being repaired as part of the Capitol restoration project.

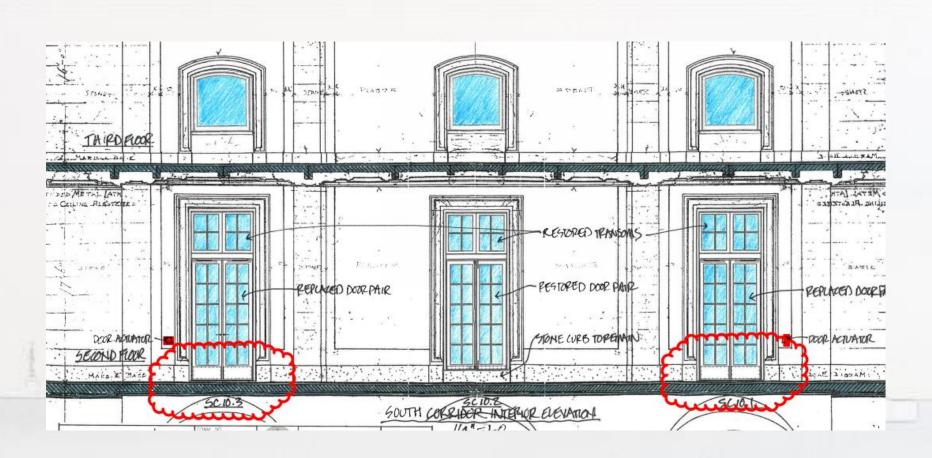
What is not included - Items needed to provide access that meets code.

The following items would need to be considered and would require additions or changes to the current scope.

- New French Doors would replace existing restored ones.
- New hardware systems would replace restored/replica hardware.
- New railing would be added to meet code requirements for railing heights.
- Existing construction.
- Barrier-free access.
- Code implications.
- Impacts on historic fabric.
- Hardware requirements.
- Security considerations.
- Policy issues regarding use.

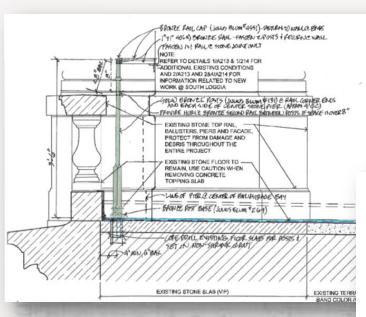


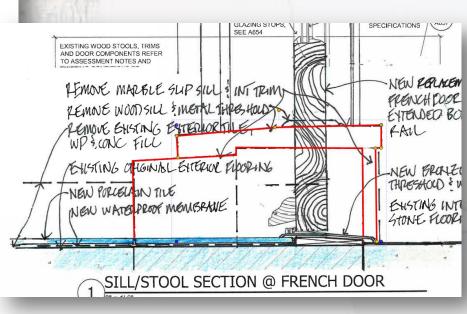
Reopening South Loggia





Reopening South Loggia



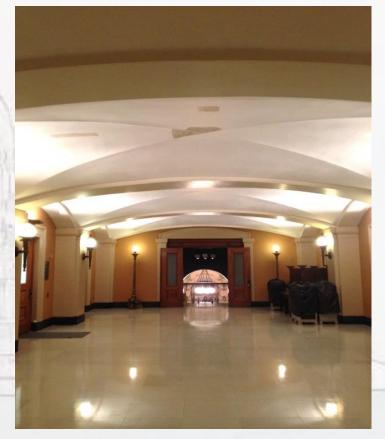




Ground Floor, North Hall Decorative Painting - \$142,767



North Hall ceiling stencil decoration currently painted over



Current Ground Floor, North Hall ceiling (no decorative stenciling visible)



Additional Decorative Painting - \$728,665

- Supreme Court Touch up gilding.
- Supreme Court Conference Room Replicate historic Greek key ceiling border.
- Senate Chamber Burnish gilding. Touch up pendants.
- Senate Retiring Room Fix damaged decorative paint areas.



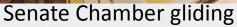






Figure 46. Historic view of Supreme Court Conference Room, circa

Greek Key border



Additional Decorative Painting

- Governor's Office Gilding at ceiling. Replicate historic finishes.
- Governor's Conference Room Gilding at ceiling. Replicate historic finishes.
- House Retiring Room Re-gild ceiling decoration.
- House Chamber Re-gild letters above dias.
- Ground Floor Corridors paint decorative stripe pattern with original colors.
- G18 Re-paint ceiling medallion in historic colors.



Governor's Office ceiling



House Retiring Room ceiling



G18 ceiling medallion



East Wing, Great Hall Stone Floor - \$257,000

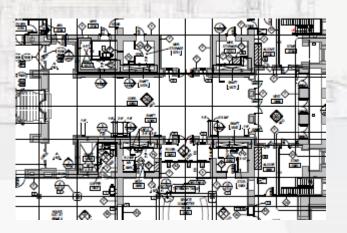
Background

- Original historic flooring was wood on sleepers.
- Previous project removed wood flooring and installed carpet on a concrete topping level with adjacent stone

Recommendation

 Remove concrete topping and install a new stone floor level with adjacent stone flooring







Security Improvements - \$6.158 million

Background

 Security Report made recommendations related to enhanced security for the Capitol Complex in general and the Capitol Grounds specifically.

Recommendation

- Complete all work at the Capitol work in 2017
- Integrate site security with other exterior site design work to minimize potential future rework at the Capitol Terrace, Aurora Avenue and Lot O



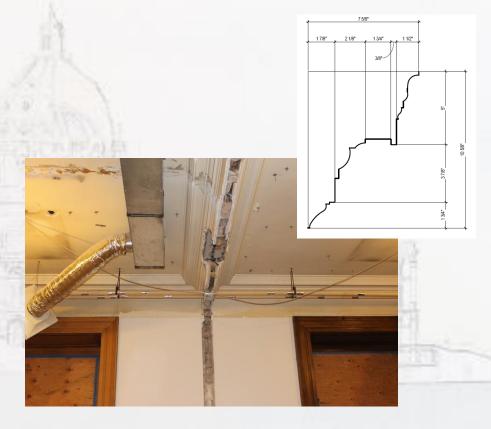
Cove Molding - \$150,000

Background

 Demolition uncovered badly damaged existing plaster crown moldings in many first floor spaces.

Recommendation

- Maximize ceiling height with HVAC and sprinkler piping concealed above new gypsum board ceilings
- Install new glass fiber reinforced gypsum (GFR) moldings in similar profile to the original plaster moldings.





Summary

•	Conservation of Fine Art	\$3.25 million
•	Addressing water intrusion and settlement	\$17.261 million
•	Reconstruction of South Stairs	\$2.793 million
•	Enhanced landscaping for Lot O	\$279,117
•	Modifications to Aurora Avenue	\$2.413 million
•	Reopening of South Loggia	\$400,003
•	Decorative painting on Ground Floor of the North Hall	\$142,767
•	Additional decorative painting	\$728,665
4	Stone floor for East Wing Great Hall	\$257,000
•	Security improvements	\$6.158 million
•	Cove molding	\$150,000

\$33.831 million





Minnesota State Capitol Restoration Project

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